



Test Report No.: W7L-P24050014RF07



FCC TEST REPORT (PART 27)

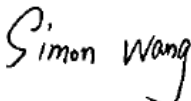

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Product:	Mobile Phone
Brand Name:	Redmi
Model Name:	2409BRN2CL
FCC ID:	2AFZZRN2CL
Date of tests:	May. 11, 2024 ~ Jul. 05, 2024

The tests have been carried out according to the requirements of the following standard:

- FCC Part 27 ANSI/TIA/EIA-603-D
- FCC Part 2 ANSI/TIA/EIA-603-E ANSI C63.26-2015

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Jul. 05, 2024	 Date: Jul. 05, 2024

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P24050014RF07	Original release	Jul. 05, 2024

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 27 & PART 2		
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
§2.1046	Conducted Output Power	Compliance
§27.50(b)(10)	Effective Radiated Power (Band 13)	Compliance
§27.50(d)(4) §27.50(h)(2)	Equivalent Isotropically Radiated Power (WCMDA Band 4)(Band 7)	Compliance
§2.1055 §27.54	Frequency Stability	Compliance
§2.1049	Occupied Bandwidth	Compliance
§2.1051 §27.53(c)(2)(4) §27.53(h) §27.53(m)(4)	Conducted Band Edge Measurements (WCMDA Band 4) (Band 7) (Band 13)	Compliance
§2.1051 §27.53(c)(2)(4) §27.53(h) §27.53(m)(4)	Conducted Spurious Emissions (WCMDA Band 4)(Band 7) (Band 13)	Compliance
§2.1053 §27.53(c)(2)(4) §27.53(h) §27.53(m)(4)	Radiated Spurious Emissions (WCMDA Band 4)(Band 7) (Band 13)	Compliance
NA	Peak to average ratio	Compliance

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Frequency Stability	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions & Radiated Power (30MHz~1GHz)	±4.98dB
Radiated emissions & Radiated Power (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Band Edge Measurements	±4.70dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,24	Mar. 27,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,24	May.09,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,23	Sep.02,24
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 18,24	Feb. 17,25
Horn Antenna	ETS-LINDGRE N	3117	00168692	Feb. 18,24	Feb. 17,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Sep.04, 23	Sep.03, 24
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,24	Feb. 13,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,24	May. 05,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,24	Feb.16,25
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn- CT0001143-121 6	Nov. 14,23	Nov. 13,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 06,24	May. 05,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,24	Feb. 13,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,24	Feb. 13,25
Temperature Chamber	ESPEC	SH-242	93000855	May. 06,24	May. 05,25
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,24	Feb. 13,25
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.10,24	May.09,25
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 11,23	Aug. 10,24

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Mobile Phone	
BRAND NAME	Redmi	
MODEL NAME	2409BRN2CL	
NOMINAL VOLTAGE	5/3.6~11Vdc(adapter or host equipment) 3.84Vdc (Li-ion, battery)	
MODULATION TECHNOLOGY	WCDMA IV	BPSK, QPSK
	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	WCDMA IV	1712.4MHz ~ 1752.6MHz
	LTE Band 7 Channel Bandwidth: 5MHz	2502.5MHz ~ 2567.5MHz
	LTE Band 7 Channel Bandwidth: 10MHz	2505MHz ~ 2565MHz
	LTE Band 7 Channel Bandwidth: 15MHz	2507.5MHz ~ 2562.5MHz
	LTE Band 7 Channel Bandwidth: 20MHz	2510MHz ~ 2560MHz
	LTE Band 13 Channel Bandwidth: 5MHz	779.5MHz ~ 784.5MHz
	LTE Band 13 Channel Bandwidth: 10MHz	782MHz
MAX. EIRP POWER	WCDMA IV	208.45mW
	LTE Band 7 Channel Bandwidth: 5MHz	233.35mW
	LTE Band 7 Channel Bandwidth: 10MHz	237.14mW
	LTE Band 7 Channel Bandwidth: 15MHz	236.05mW
	LTE Band 7 Channel Bandwidth: 20MHz	241.55mW
	LTE Band 13 Channel Bandwidth: 5MHz	54.7mW
	LTE Band 13 Channel Bandwidth: 10MHz	54.83mW
EMISSION DESIGNATOR	WCDMA IV	4M17F9W
	LTE Band 7 Channel Bandwidth: 5MHz	QPSK: 4M50G7D
		16QAM: 4M51W7D
LTE Band 7	QPSK:8M99G7D	



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	Channel Bandwidth: 10MHz	16QAM: 9M00W7D
	LTE Band 7 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M5W7D
	LTE Band 7 Channel Bandwidth: 20MHz	QPSK: 18M0G7D
		16QAM: 17M9W7D
	LTE Band 13 Channel Bandwidth: 5MHz	QPSK: 4M54G7D
16QAM: 4M52W7D		
LTE Band 13 Channel Bandwidth: 10MHz	QPSK: 9M03G7D	
	16QAM: 9M00W7D	
ANTENNA TYPE	ANT 0(UP): PIFA Antenna with -1.5dBi gain for WCDMA IV PIFA Antenna with -1dBi gain for LTE7 PIFA Antenna with -6.5dBi gain for LTE13 ANT 1(DOWN): PIFA Antenna with -1.5dBi gain for WCDMA IV PIFA Antenna with -0.5dBi gain for LTE7 PIFA Antenna with -5dBi gain for LTE13	
HW VERSION	135100C3N	
SW VERSION	Xiaomi HyperOS 1.0	
IMEI	867957070066520	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable3: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable4: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable5: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable6: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable7: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable8: non-shielded cable, with w/o ferrite core, 1.0 meter	
EXTREME TEMPERATURE	0-40 °C	
EXTREME VOLTAGE	3.6V - 4.4V	

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- Physically, the EUT provides two completed transmitter and two receiver.

MODULATION MODE	TX FUNCTION
LTE	2TX/2RX

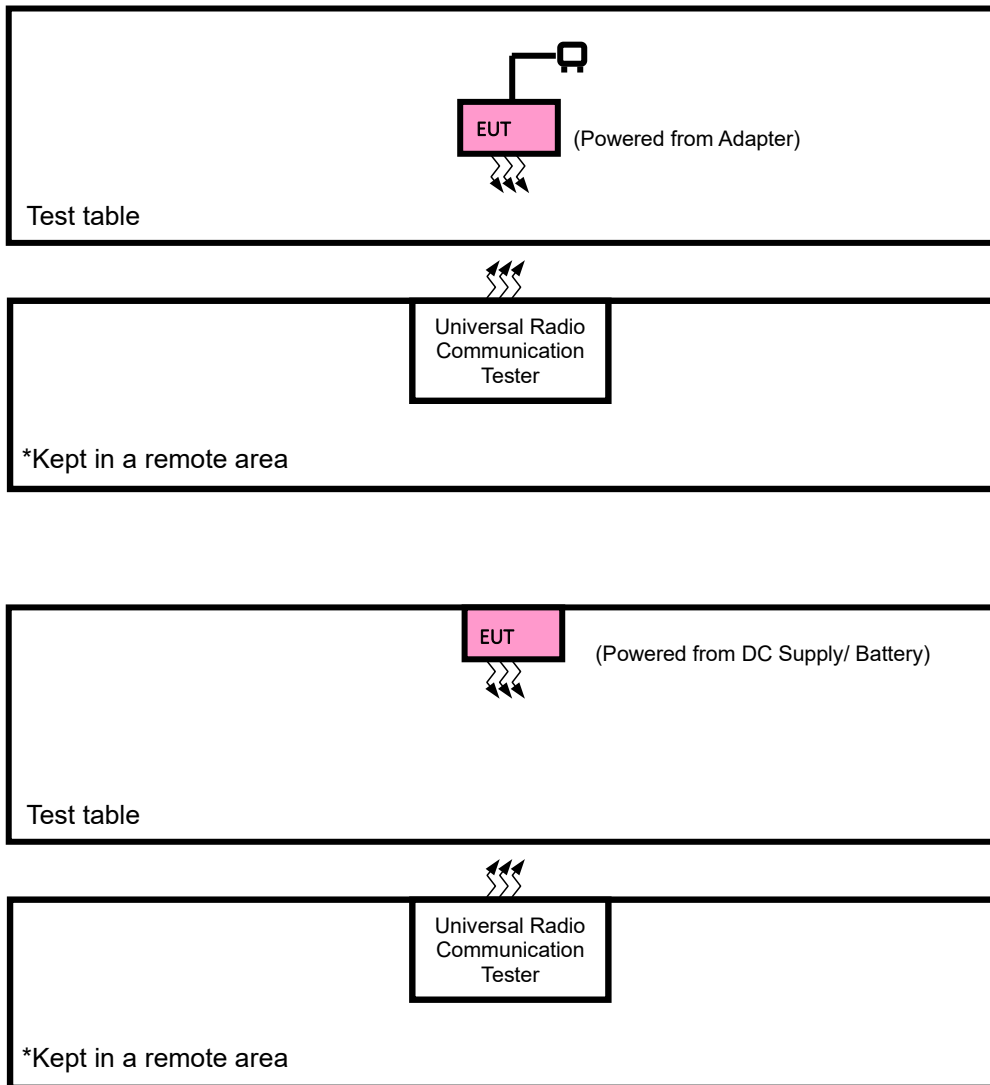
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in the test report.



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4. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.

2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION TEST



2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.8m

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter + USB Cable with WCDMA or LTE link
B	EUT + DC source with GSM or WCDMA or LTE link

WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	1312 to 1513	1312, 1413, 1513	WCDMA
B	FREQUENCY STABILITY	1312 to 1513	1312, 1413, 1513	WCDMA
A	OCCUPIED BANDWIDTH	1312 to 1513	1312, 1413, 1513	WCDMA
A	BAND EDGE	1312 to 1513	1312, 1513	WCDMA
A	PEAK TO AVERAGE RATIO	1312 to 1513	1312, 1413, 1513	WCDMA
A	CONDUCTED EMISSION	1312 to 1513	1312, 1413, 1513	WCDMA
A	RADIATED EMISSION	1312 to 1513	1312, 1413, 1513	WCDMA

LTE BAND 7 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDT H	MODULATION	MODE		
A	EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0RB Offset		
		20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
		20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
B	FREQUENCY STABILITY	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	100 RB / 0 RB Offset		
A	OCCUPIED BANDWIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset		
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset		
		20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset		
		20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset		
A	PEAK TO AVERAGE RATIO	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset		
A	BAND EDGE	20775 to 21425	20775	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset		
			21425	5MHz	QPSK, 16QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset		
		20800 to 21400	20800	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset		
			21400	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset		
		20825 to 21375	20825	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset 75 RB / 0 RB Offset		
			21375	15MHz	QPSK, 16QAM	1 RB / 74 RB Offset 75 RB / 0 RB Offset		
		20850 to 21350	20850	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset		
			21350	20MHz	QPSK, 16QAM	1 RB / 99 RB Offset 100 RB / 0 RB Offset		
		A	CONDCUDED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB / 0 RB Offset
				20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB / 0RB Offset
				20825 to 21375	20825, 21100, 21375	15MHz	QPSK	1 RB / 0 RB Offset
				20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB / 0 RB Offset
A	RADIATED EMISSION	20775 to 21425	21100	5MHz	QPSK	1 RB / 0 RB Offset		
		20800 to 21400	21100	10MHz	QPSK	1 RB / 0 RB Offset		
		20825 to 21375	20825, 21100, 21375	15MHz	QPSK	1 RB / 0 RB Offset		
		20850 to 21350	21100	20MHz	QPSK	1 RB / 0 RB Offset		

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

LTE BAND 13 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		23230	23230	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	23230	23230	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		23230	23230	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	23230	23230	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
A	BAND EDGE	23205 to 23255	23205	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			23255	5MHz	QPSK, 16QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset
			23230	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		23230	23230	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						1 RB / 49 RB Offset
						50 RB / 0 RB Offset
A	CONDUCTED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23230	23230	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	23205 to 23255	23230	5MHz	QPSK	1 RB / 0 RB Offset
		23230	23230	10MHz	QPSK	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.



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TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 70%RH	DC 5/3.6~11V By Adapter	Jace Hu
FREQUENCY STABILITY	See Note	DC 3.6/3.84/4.4 By DC Source	James Fu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 5/3.6~11V By Adapter	James Fu
BAND EDGE	23deg. C, 70%RH	DC 5/3.6~11V By Adapter	James Fu
CONDCUDED EMISSION	23deg. C, 70%RH	DC 5/3.6~11V By Adapter	James Fu
RADIATED EMISSION	23deg. C, 70%RH	DC 5/3.6~11V By Adapter	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 5/3.6~11V By Adapter	James Fu



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2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.



3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.”

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1-watt EIRP

According to the specific rule Part 27.50(b)(10) Fixed, mobile, and Portable stations (hand-held devices) transmitting in the 698-746 MHz, 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm).

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW.

G_{T} = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP).

L_{C} = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

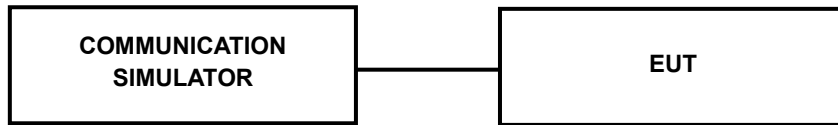
- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle, and high channel and record the power level shown on simulator.



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3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

ANT0(UP):

Band	WCDMA IV		
	1312	1413	1513
Channel	1712.4	1732.6	1752.6
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2K	24.67	24.76	24.79
HSDPA Subtest-1	23.85	23.86	23.92
HSDPA Subtest-2	23.78	23.90	23.94
HSDPA Subtest-3	23.34	23.35	23.40
HSDPA Subtest-4	23.36	23.43	23.43
DC-HSDPA Subtest-1	23.79	23.94	23.98
DC-HSDPA Subtest-2	23.85	23.88	23.91
DC-HSDPA Subtest-3	23.33	23.38	23.48
DC-HSDPA Subtest-4	23.32	23.40	23.47
HSUPA Subtest-1	22.05	22.07	22.10
HSUPA Subtest-2	21.69	21.76	21.86
HSUPA Subtest-3	22.60	22.68	22.76
HSUPA Subtest-4	21.36	21.39	21.49
HSUPA Subtest-5	22.57	22.65	22.70
HSPA+ Subtest-1	21.88	22.03	22.02

LTE Band 7

Band/BW	Modulation	RB Size	RB Offset	Low CH 20775	Mid CH 21100	High CH 21425
				Frequency 2502.5 MHz	Frequency 2535 MHz	Frequency 2567.5 MHz
7/5	QPSK	1	0	23.38	23.19	23.06
		1	12	23.70	23.32	23.42
		1	24	23.20	23.08	23.15
		12	0	22.63	22.42	22.27
		12	6	22.71	22.40	22.43
		12	13	22.60	22.35	22.26
		25	0	22.67	22.32	22.22
	16QAM	1	0	22.59	22.43	22.29
		1	12	22.90	22.49	22.62
		1	24	22.41	22.20	22.25
		12	0	21.59	21.39	21.25
		12	6	21.70	21.44	21.31
		12	13	21.69	21.33	21.15
		25	0	21.49	21.35	21.27
	64QAM	1	0	21.54	21.22	21.26
		1	12	21.85	21.52	21.43
		1	24	21.34	21.17	21.31
		12	0	20.43	20.46	20.20
		12	6	20.59	20.30	20.21
		12	13	20.57	20.16	20.21
		25	0	20.48	20.25	20.26



Test Report No.: W7L-P24050014RF07

Band/BW	Modulation	RB Size	RB Offset	Low CH 20800	Mid CH 21100	High CH 21400
				Frequency 2505 MHz	Frequency 2535 MHz	Frequency 2565 MHz
7/ 10	QPSK	1	0	23.42	23.09	22.97
		1	24	23.59	23.39	23.38
		1	49	23.17	23.21	23.14
		25	0	22.64	22.41	22.36
		25	12	22.69	22.42	22.30
		25	25	22.68	22.26	22.26
		50	0	22.57	22.36	22.31
	16QAM	1	0	22.64	22.30	22.22
		1	24	22.88	22.52	22.61
		1	49	22.41	22.18	22.14
		25	0	21.61	21.47	21.29
		25	12	21.57	21.35	21.35
		25	25	21.65	21.31	21.13
		50	0	21.60	21.28	21.22
	64QAM	1	0	21.54	21.29	21.30
		1	24	21.86	21.46	21.44
		1	49	21.33	21.30	21.28
		25	0	20.47	20.43	20.20
		25	12	20.55	20.28	20.28
		25	25	20.62	20.17	20.32
		50	0	20.55	20.31	20.21

Band/BW	Modulation	RB Size	RB Offset	Low CH 20825	Mid CH 21100	High CH 21375
				Frequency 2507.5 MHz	Frequency 2535 MHz	Frequency 2562.5 MHz
7/ 15	QPSK	1	0	23.44	23.14	23.07
		1	37	23.62	23.44	23.40
		1	74	23.18	22.87	23.08
		36	0	22.56	22.47	22.34
		36	19	22.67	22.40	22.38
		36	39	22.58	22.32	22.26
		75	0	22.67	22.31	22.24
	16QAM	1	0	22.59	22.36	22.22
		1	37	22.90	22.59	22.58
		1	74	22.38	22.18	22.21
		36	0	21.47	21.35	21.25
		36	19	21.70	21.31	21.26
		36	39	21.56	21.24	21.19
		75	0	21.52	21.39	21.25
	64QAM	1	0	21.46	21.26	21.29
		1	37	21.86	21.42	21.46
		1	74	21.29	21.22	21.27
		36	0	20.43	20.34	20.22
		36	19	20.61	20.37	20.30
		36	39	20.63	20.27	20.29
		75	0	20.57	20.35	20.23



Test Report No.: W7L-P24050014RF07

Band/BW	Modulation	RB Size	RB Offset	Low CH 20850	Mid CH 21100	High CH 21350
				Frequency 2510 MHz	Frequency 2535 MHz	Frequency 2560 MHz
7/ 20	QPSK	1	0	23.48	23.21	23.12
		1	50	23.72	23.47	23.45
		1	99	23.23	23.00	23.09
		50	0	22.66	22.51	22.40
		50	25	22.73	22.55	22.44
		50	50	22.72	22.38	22.28
		100	0	22.68	22.43	22.33
	16QAM	1	0	22.70	22.44	22.32
		1	50	22.93	22.64	22.65
		1	99	22.51	22.22	22.26
		50	0	21.62	21.50	21.35
		50	25	21.72	21.45	21.40
		50	50	21.71	21.36	21.28
		100	0	21.64	21.41	21.29
	64QAM	1	0	21.55	21.35	21.31
		1	50	21.88	21.57	21.58
		1	99	21.41	21.32	21.35
		50	0	20.57	20.47	20.32
		50	25	20.70	20.41	20.36
		50	50	20.69	20.31	20.33
		100	0	20.62	20.40	20.35

LTE Band 13

Band/BW	Modulation	RB Size	RB Offset	Low CH 23205	Mid CH 23230	High CH 23255
				Frequency 779.5 MHz	Frequency 782.0 MHz	Frequency 784.5 MHz
13/ 5	QPSK	1	0	24.32	24.22	24.27
		1	12	24.40	24.42	24.35
		1	24	24.28	24.24	24.23
		12	0	23.35	23.32	23.23
		12	6	23.30	23.23	23.30
		12	13	23.27	23.32	23.36
		25	0	23.37	23.39	23.29
	16QAM	1	0	23.52	23.59	23.59
		1	12	23.81	23.79	23.72
		1	24	23.49	23.58	23.60
		12	0	22.48	22.44	22.39
		12	6	22.39	22.42	22.42
		12	13	22.34	22.46	22.42
		25	0	22.47	22.35	22.37
	64QAM	1	0	22.43	22.42	22.50
		1	12	22.69	22.73	22.75
		1	24	22.41	22.40	22.46
		12	0	21.29	21.22	21.32
		12	6	21.23	21.31	21.22
		12	13	21.23	21.18	21.16
		25	0	21.21	21.25	21.25



Test Report No.: W7L-P24050014RF07

Band/BW	Modulation	RB Size	RB Offset	/	Mid CH 23230	/
				/	Frequency 782.0 MHz	/
13/ 10	QPSK	1	0	/	24.33	/
		1	24	/	24.46	/
		1	49	/	24.31	/
		25	0	/	23.38	/
		25	12	/	23.42	/
		25	25	/	23.39	/
		50	0	/	23.41	/
	16QAM	1	0	/	23.64	/
		1	24	/	23.86	/
		1	49	/	23.62	/
		25	0	/	22.51	/
		25	12	/	22.48	/
		25	25	/	22.47	/
		50	0	/	22.50	/
	64QAM	1	0	/	22.55	/
		1	24	/	22.77	/
		1	49	/	22.55	/
		25	0	/	21.37	/
		25	12	/	21.33	/
		25	25	/	21.31	/
		50	0	/	21.35	/



Test Report No.: W7L-P24050014RF07

ANT1(DOWN):

Band	WCDMA IV		
	1312	1413	1513
Channel	1712.4	1732.6	1752.6
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2K	24.61	24.63	24.69
HSDPA Subtest-1	23.72	23.81	23.75
HSDPA Subtest-2	23.79	23.77	23.70
HSDPA Subtest-3	23.24	23.30	23.29
HSDPA Subtest-4	23.32	23.35	23.37
DC-HSDPA Subtest-1	23.82	23.78	23.78
DC-HSDPA Subtest-2	23.80	23.83	23.88
DC-HSDPA Subtest-3	23.30	23.30	23.33
DC-HSDPA Subtest-4	23.30	23.28	23.38
HSUPA Subtest-1	21.93	21.97	22.09
HSUPA Subtest-2	21.63	21.66	21.74
HSUPA Subtest-3	22.54	22.61	22.65
HSUPA Subtest-4	21.28	21.32	21.28
HSUPA Subtest-5	22.59	22.56	22.66
HSPA+ Subtest-1	21.91	21.87	21.94

LTE Band 7

Band/BW	Modulation	RB Size	RB Offset	Low CH 20775	Mid CH 21100	High CH 21425
				Frequency 2502.5 MHz	Frequency 2535 MHz	Frequency 2567.5 MHz
7/5	QPSK	1	0	23.94	23.56	23.70
		1	12	24.18	23.95	24.07
		1	24	23.86	23.61	23.86
		12	0	23.02	22.71	22.87
		12	6	23.08	22.85	22.74
		12	13	22.99	22.77	23.03
		25	0	23.06	22.64	23.00
	16QAM	1	0	22.99	22.69	23.20
		1	12	23.30	23.02	23.59
		1	24	22.87	22.64	23.10
		12	0	22.02	21.64	21.90
		12	6	22.07	21.70	21.84
		12	13	22.02	21.57	21.89
		25	0	21.99	21.63	21.82
	64QAM	1	0	22.09	21.98	21.56
		1	12	22.44	22.25	21.84
		1	24	22.05	21.87	21.59
		12	0	21.01	21.03	20.97
		12	6	21.00	21.02	20.94
		12	13	20.99	20.99	20.87
		25	0	21.02	20.96	20.96



Test Report No.: W7L-P24050014RF07

Band/BW	Modulation	RB Size	RB Offset	Low CH 20800	Mid CH 21100	High CH 21400
				Frequency 2505 MHz	Frequency 2535 MHz	Frequency 2565 MHz
7/ 10	QPSK	1	0	23.88	23.53	23.67
		1	24	24.25	23.99	24.14
		1	49	23.76	23.54	23.72
		25	0	22.97	22.78	22.89
		25	12	23.13	22.84	22.78
		25	25	23.05	22.79	23.02
		50	0	22.96	22.68	23.05
	16QAM	1	0	22.91	22.63	23.23
		1	24	23.33	23.02	23.48
		1	49	22.93	22.56	23.13
		25	0	21.97	21.59	21.89
		25	12	22.11	21.69	21.88
		25	25	21.98	21.50	21.85
		50	0	21.95	21.54	21.86
	64QAM	1	0	21.98	21.91	21.52
		1	24	22.45	22.34	21.96
		1	49	21.93	21.85	21.56
		25	0	20.92	20.99	20.86
		25	12	21.14	21.03	20.91
		25	25	21.09	20.94	20.87
		50	0	20.92	21.02	21.01

Band/BW	Modulation	RB Size	RB Offset	Low CH 20825	Mid CH 21100	High CH 21375
				Frequency 2507.5 MHz	Frequency 2535 MHz	Frequency 2562.5 MHz
7/ 15	QPSK	1	0	23.84	23.54	23.69
		1	37	24.23	23.99	24.10
		1	74	23.86	23.53	23.86
		36	0	23.02	22.70	22.88
		36	19	23.07	22.81	22.83
		36	39	23.11	22.69	23.06
		75	0	22.97	22.62	22.96
	16QAM	1	0	22.93	22.58	23.22
		1	37	23.30	22.88	23.57
		1	74	22.86	22.63	23.20
		36	0	22.04	21.62	21.87
		36	19	21.97	21.74	21.97
		36	39	22.01	21.59	21.78
		75	0	22.00	21.58	21.92
	64QAM	1	0	22.06	21.89	21.52
		1	37	22.42	22.28	21.89
		1	74	22.00	21.95	21.60
		36	0	20.99	21.05	20.84
		36	19	21.00	21.04	21.04
		36	39	21.02	20.96	20.86
		75	0	20.90	21.02	21.02



Test Report No.: W7L-P24050014RF07

Band/BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20850	21100	21350
				Frequency	Frequency	Frequency
				2510 MHz	2535 MHz	2560 MHz
7/ 20	QPSK	1	0	23.95	23.67	23.79
		1	50	24.33	24.02	24.19
		1	99	23.91	23.58	23.87
		50	0	23.07	22.83	23.02
		50	25	23.14	22.91	23.08
		50	50	23.12	22.82	22.97
		100	0	23.10	22.75	23.09
	16QAM	1	0	23.02	22.72	23.35
		1	50	23.39	23.03	23.60
		1	99	23.01	22.67	23.21
		50	0	22.06	21.67	21.93
		50	25	22.12	21.75	21.98
		50	50	22.09	21.62	21.90
		100	0	22.05	21.68	21.93
	64QAM	1	0	22.13	22.02	21.58
		1	50	22.49	22.35	21.97
		1	99	22.06	21.96	21.62
		50	0	21.05	21.08	20.98
		50	25	21.15	21.17	21.05
		50	50	21.13	21.04	20.97
		100	0	21.04	21.06	21.03



**BUREAU
VERITAS**

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LTE Band 13

Band/BW	Modulation	RB Size	RB Offset	Low CH 23205	Mid CH 23230	High CH 23255
				Frequency 779.5 MHz	Frequency 782.0 MHz	Frequency 784.5 MHz
13/ 5	QPSK	1	0	24.35	24.30	24.42
		1	12	24.53	24.42	24.48
		1	24	24.37	24.35	24.26
		12	0	23.37	23.40	23.41
		12	6	23.50	23.51	23.49
		12	13	23.54	23.45	23.50
		25	0	23.48	23.51	23.42
	16QAM	1	0	23.36	23.35	23.44
		1	12	23.73	23.73	23.70
		1	24	23.45	23.42	23.44
		12	0	22.41	22.49	22.45
		12	6	22.45	22.44	22.39
		12	13	22.38	22.37	22.41
		25	0	22.49	22.40	22.53
	64QAM	1	0	22.45	22.54	22.43
		1	12	22.73	22.67	22.72
		1	24	22.45	22.48	22.50
		12	0	21.40	21.38	21.44
		12	6	21.39	21.44	21.38
		12	13	21.39	21.44	21.36
		25	0	21.39	21.47	21.47

Band/BW	Modulation	RB Size	RB Offset	/	Mid CH 23230	/
				/	Frequency 782.0 MHz	/
13/ 10	QPSK	1	0	/	24.45	/
		1	24	/	24.54	/
		1	49	/	24.40	/
		25	0	/	23.51	/
		25	12	/	23.63	/
		25	25	/	23.56	/
		50	0	/	23.53	/
	16QAM	1	0	/	23.46	/
		1	24	/	23.74	/
		1	49	/	23.56	/
		25	0	/	22.51	/
		25	12	/	22.52	/
		25	25	/	22.49	/
		50	0	/	22.55	/
	64QAM	1	0	/	22.56	/
		1	24	/	22.78	/
		1	49	/	22.59	/
		25	0	/	21.49	/
		25	12	/	21.48	/
		25	25	/	21.47	/
		50	0	/	21.51	/



**BUREAU
VERITAS**

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EIRP

ANT0(UP):

WCDMA IV

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1312	1712.4	24.67	-1.5	23.17	207.49	1
1413	1732.6	24.76	-1.5	23.26	211.84	1
1513	1752.6	24.79	-1.5	23.29	213.3	1

LTE BAND 7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	23.7	-1	22.7	186.21	2
21100	2535.0	23.32	-1	22.32	170.61	2
21425	2567.5	23.42	-1	22.42	174.58	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	22.9	-1	21.9	154.88	2
21100	2535.0	22.49	-1	21.49	140.93	2
21425	2567.5	22.62	-1	21.62	145.21	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	21.85	-1	20.85	121.62	2
21100	2535	21.52	-1	20.52	112.72	2
21425	2567.5	21.43	-1	20.43	110.41	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505.0	23.59	-1	22.59	181.55	2
21100	2535.0	23.39	-1	22.39	173.38	2
21400	2565.0	23.38	-1	22.38	172.98	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505.0	22.88	-1	21.88	154.17	2
21100	2535.0	22.52	-1	21.52	141.91	2
21400	2565.0	22.61	-1	21.61	144.88	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505	21.86	-1	20.86	121.9	2
21100	2535	21.46	-1	20.46	111.17	2
21400	2565	21.44	-1	20.44	110.66	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	23.62	-1	22.62	182.81	2
21100	2535.0	23.44	-1	22.44	175.39	2
21375	2562.5	23.4	-1	22.4	173.78	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	22.9	-1	21.9	154.88	2
21100	2535.0	22.59	-1	21.59	144.21	2
21375	2562.5	22.58	-1	21.58	143.88	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	21.86	-1	20.86	121.9	2
21100	2535	21.42	-1	20.42	110.15	2
21375	2562.5	21.46	-1	20.46	111.17	2



**BUREAU
VERITAS**

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CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	23.72	-1	22.72	187.07	2
21100	2535.0	23.47	-1	22.47	176.6	2
21350	2560.0	23.45	-1	22.45	175.79	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	22.93	-1	21.93	155.96	2
21100	2535.0	22.64	-1	21.64	145.88	2
21350	2560.0	22.65	-1	21.65	146.22	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510	21.88	-1	20.88	122.46	2
21100	2535	21.57	-1	20.57	114.02	2
21350	2560	21.58	-1	20.58	114.29	2



BUREAU
VERITAS

Test Report No.: W7L-P24050014RF07

LTE BAND 13

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	24.4	-6.5	15.75	37.58	3
23230	782	24.42	-6.5	15.77	37.76	3
23255	784.5	24.35	-6.5	15.7	37.15	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	23.81	-6.5	15.16	32.81	3
23230	782	23.79	-6.5	15.14	32.66	3
23255	784.5	23.72	-6.5	15.07	32.14	3

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	22.69	-6.5	14.04	25.35	3
23230	782	22.73	-6.5	14.08	25.59	3
23255	784.5	22.75	-6.5	14.1	25.7	3



Test Report No.: W7L-P24050014RF07

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	24.46	-6.5	15.81	38.11	3
-	-	-	-	-	-	-

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	23.86	-6.5	15.21	33.19	3
-	-	-	-	-	-	-

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	22.77	-6.5	14.12	25.82	3
-	-	-	-	-	-	-

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

ANT1(DOWN):

WCDMA IV

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1312	1712.4	24.61	-1.5	23.11	204.64	1
1413	1732.6	24.63	-1.5	23.13	205.59	1
1513	1752.6	24.69	-1.5	23.19	208.45	1

LTE BAND 7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	24.18	-0.5	23.68	233.35	2
21100	2535.0	23.95	-0.5	23.45	221.31	2
21425	2567.5	24.07	-0.5	23.57	227.51	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	23.3	-0.5	22.8	190.55	2
21100	2535.0	23.02	-0.5	22.52	178.65	2
21425	2567.5	23.59	-0.5	23.09	203.7	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	22.44	-0.5	21.94	156.31	2
21100	2535	22.25	-0.5	21.75	149.62	2
21425	2567.5	21.84	-0.5	21.34	136.14	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505.0	24.25	-0.5	23.75	237.14	2
21100	2535.0	23.99	-0.5	23.49	223.36	2
21400	2565.0	24.14	-0.5	23.64	231.21	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505.0	23.33	-0.5	22.83	191.87	2
21100	2535.0	23.02	-0.5	22.52	178.65	2
21400	2565.0	23.48	-0.5	22.98	198.61	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505	22.45	-0.5	21.95	156.68	2
21100	2535	22.34	-0.5	21.84	152.76	2
21400	2565	21.96	-0.5	21.46	139.96	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	24.23	-0.5	23.73	236.05	2
21100	2535.0	23.99	-0.5	23.49	223.36	2
21375	2562.5	24.1	-0.5	23.6	229.09	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	23.3	-0.5	22.8	190.55	2
21100	2535.0	22.88	-0.5	22.38	172.98	2
21375	2562.5	23.57	-0.5	23.07	202.77	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	22.42	-0.5	21.92	155.6	2
21100	2535	22.28	-0.5	21.78	150.66	2
21375	2562.5	21.89	-0.5	21.39	137.72	2



**BUREAU
VERITAS**

Test Report No.: W7L-P24050014RF07

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	24.33	-0.5	23.83	241.55	2
21100	2535.0	24.02	-0.5	23.52	224.91	2
21350	2560.0	24.19	-0.5	23.69	233.88	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	23.39	-0.5	22.89	194.54	2
21100	2535.0	23.03	-0.5	22.53	179.06	2
21350	2560.0	23.6	-0.5	23.1	204.17	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510	22.49	-0.5	21.99	158.12	2
21100	2535	22.35	-0.5	21.85	153.11	2
21350	2560	21.97	-0.5	21.47	140.28	2



**BUREAU
VERITAS**

Test Report No.: W7L-P24050014RF07

LTE BAND 13

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	24.53	-5	17.38	54.7	3
23230	782	24.42	-5	17.27	53.33	3
23255	784.5	24.48	-5	17.33	54.08	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	23.73	-5	16.58	45.5	3
23230	782	23.73	-5	16.58	45.5	3
23255	784.5	23.7	-5	16.55	45.19	3

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	22.73	-5	15.58	36.14	3
23230	782	22.67	-5	15.52	35.65	3
23255	784.5	22.72	-5	15.57	36.06	3



Test Report No.: W7L-P24050014RF07

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	24.54	-5	17.39	54.83	3
-	-	-	-	-	-	-

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	23.74	-5	16.59	45.6	3
-	-	-	-	-	-	-

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	22.78	-5	15.63	36.56	3
-	-	-	-	-	-	-

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

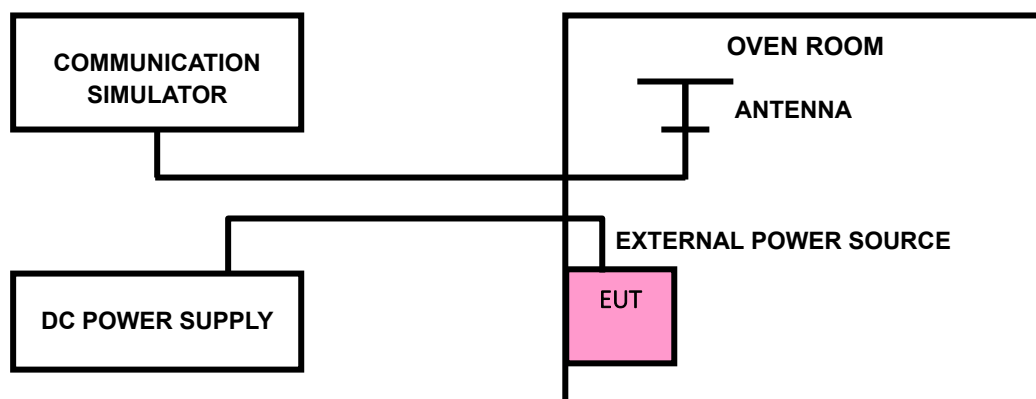
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

3.2.2 TEST PROCEDURE

- The device is placed at the oven room. The oven room could control the temperatures and humidity. Power warms up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be recording the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be holding $\pm 0.5^{\circ}\text{C}$ during the measurement testing. Each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP





Test Report No.: W7L-P24050014RF07

3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

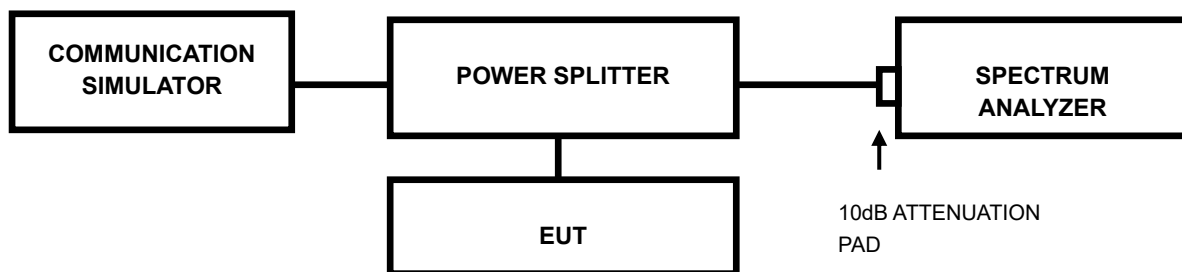
Note: LV = Low voltage (3.6V); NV = Normal voltage (3.84V); HV= High voltage (4.4V).
NT = Normal temperature (25°C)

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band is such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage. 0.5 % of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



Test Report No.: W7L-P24050014RF07

3.3.4 TEST RESULTS

Please Refer to Appendix Of this test report.



3.4 BAND EDGE MEASUREMENT

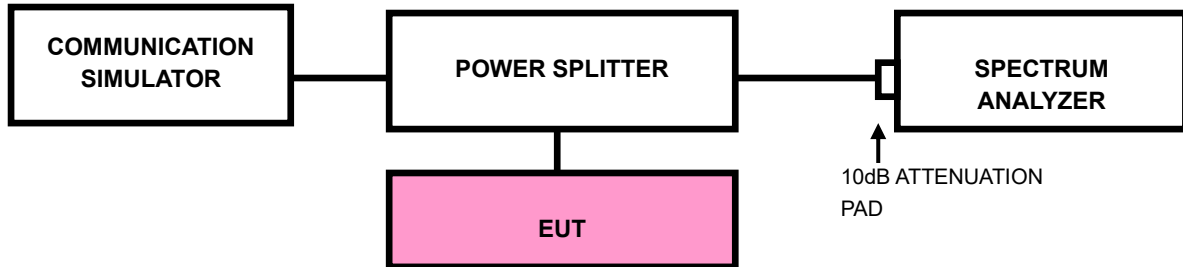
3.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC 27.53(c) specified that For operations in the 746-758 MHz band and the 776-788 MHz band , the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emission in a 6.25kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, $P(\text{dBW})$, by at least $65 + 10 \log 10p(P)$, dB, for mobile and portable equipment.

According to FCC 27.53(h) specified that For operations in the 1710-1755 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. However, in the 1-megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

According to FCC 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1-megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.

3.4.2 TEST SETUP





Test Report No.: W7L-P24050014RF07

3.4.3 TEST PROCEDURES

- a) All measurements were done at low and high operational frequency range.
- b) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- c) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW)
- d) .Set the resolution bandwidth (RBW) $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- f) Set the video bandwidth (VBW) to $\geq 3 \times$ RBW.
- g) Select the average power (RMS) display detector.
- h) Set the number of measurement points to ≥ 1001 .
- i) Use auto-coupled sweep time.
- j) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- k) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 30/100KHz.
- l) Record the max trace plot into the test report.



Test Report No.: W7L-P24050014RF07

3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit is equal to -13dBm .

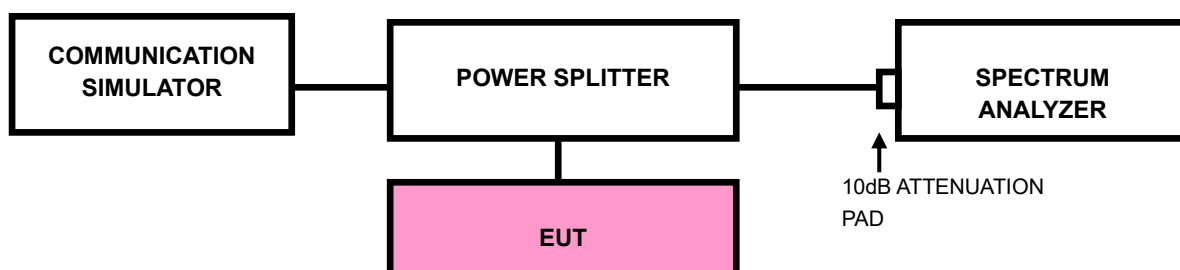
For: LTE Band7/13

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm .

3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle, and high operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

3.5.3 TEST SETUP





Test Report No.: W7L-P24050014RF07

3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix Of this test report.



3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

For: LTE Band7

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm .

3.6.2 TEST PROCEDURES

- a. The substitute method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator exports the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved the receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated from E.I.R.P power by subtracting the gain of dipole, $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

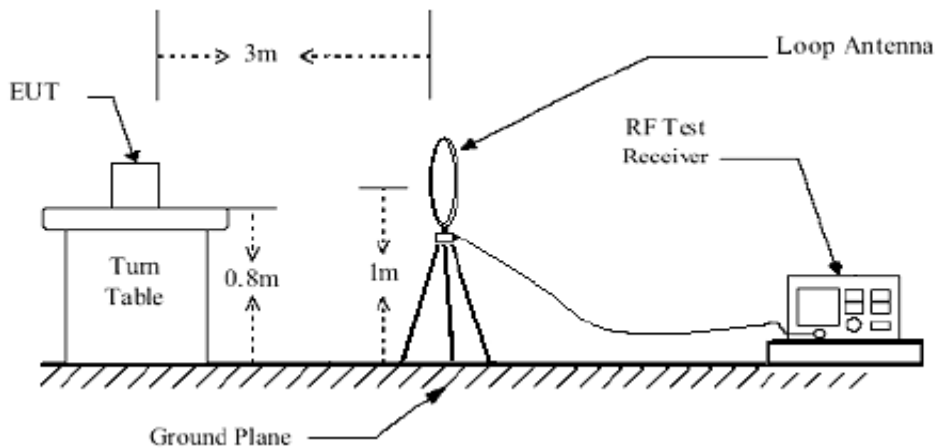
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz, and the video bandwidth is 3 MHz.

3.6.3 DEVIATION FROM TEST STANDARD

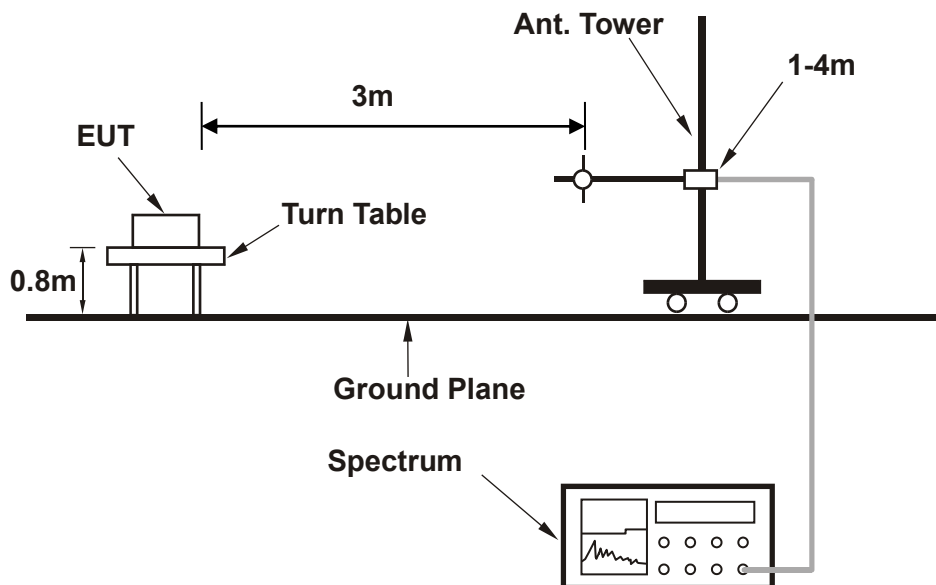
No deviation

3.6.4 TEST SETUP

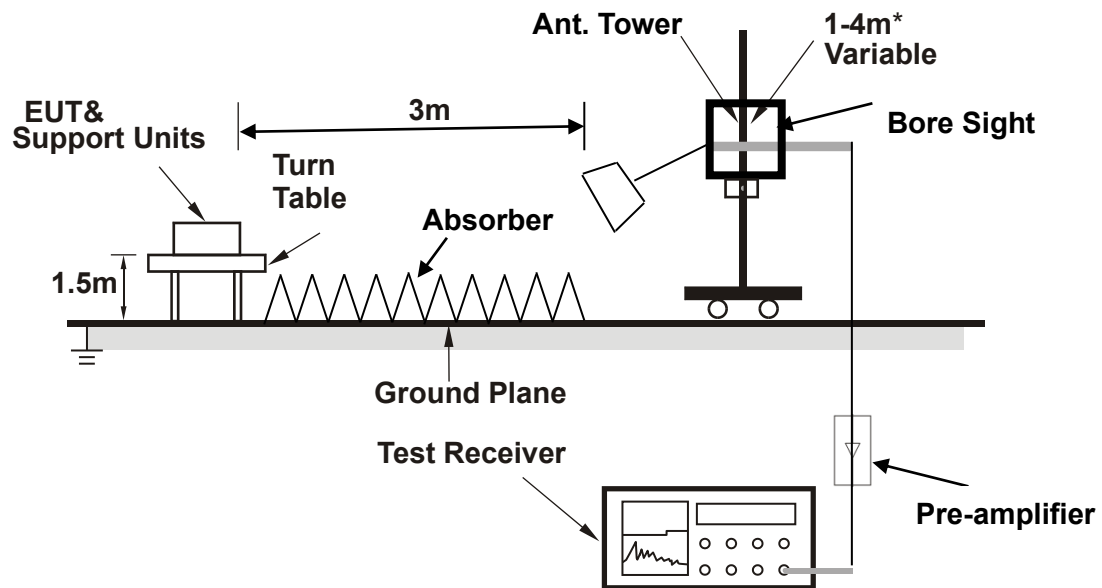
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).



3.6.5 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA

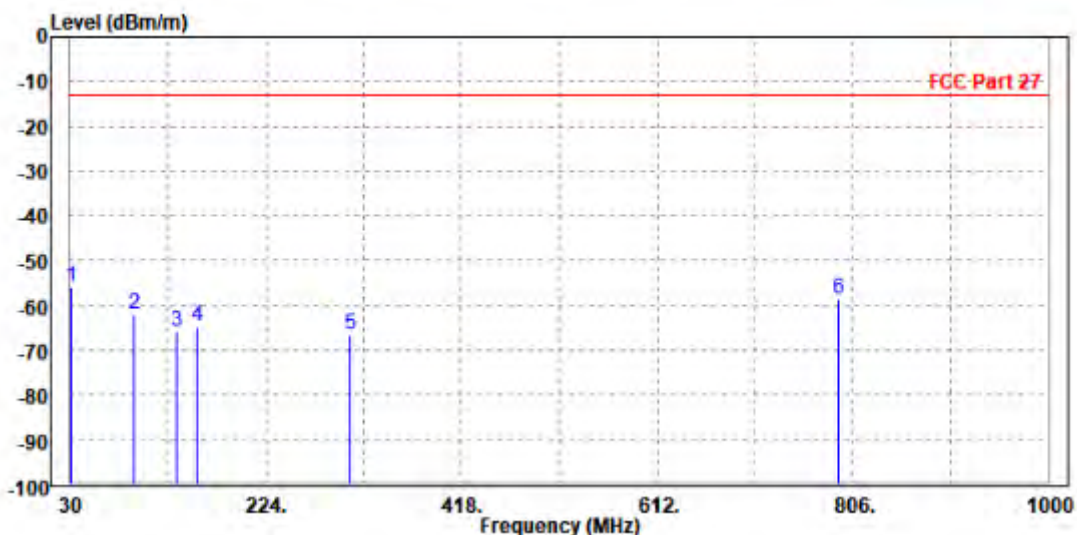
30 MHz – 1GHz data:

LTE Band 13(Ant01) (DOWN):

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 23255	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase	
	MHz	dBm/m	dBm	dBm/m	dB	dB/m			
1	PP	30.970	-55.80	-53.29	-13.00	-42.80	-2.51	Peak	Horizontal
2		94.020	-61.98	-49.15	-13.00	-48.98	-12.83	Peak	Horizontal
3		134.760	-65.92	-50.55	-13.00	-52.92	-15.37	Peak	Horizontal
4		156.100	-64.81	-49.90	-13.00	-51.81	-14.91	Peak	Horizontal
5		307.420	-66.45	-57.79	-13.00	-53.45	-8.66	Peak	Horizontal
6		791.450	-58.72	-63.86	-13.00	-45.72	5.14	Peak	Horizontal

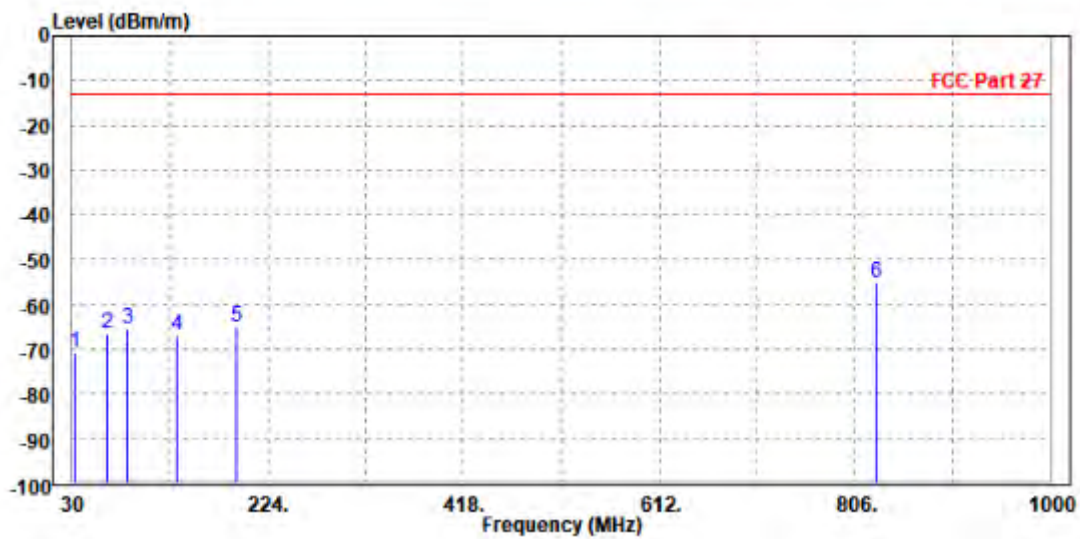




Test Report No.: W7L-P24050014RF07

MODE	TX channel 23255	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	31.940	-70.57	-49.16	-13.00	-57.57	-21.41	Peak	Vertical
2	64.920	-66.40	-47.01	-13.00	-53.40	-19.39	Peak	Vertical
3	85.290	-65.46	-47.33	-13.00	-52.46	-18.13	Peak	Vertical
4	133.790	-66.80	-50.49	-13.00	-53.80	-16.31	Peak	Vertical
5	192.960	-65.18	-57.88	-13.00	-52.18	-7.30	Peak	Vertical
6 PP	826.370	-55.17	-62.06	-13.00	-42.17	6.89	Peak	Vertical





BUREAU VERITAS

Test Report No.: W7L-P24050014RF07

ABOVE 1GHz

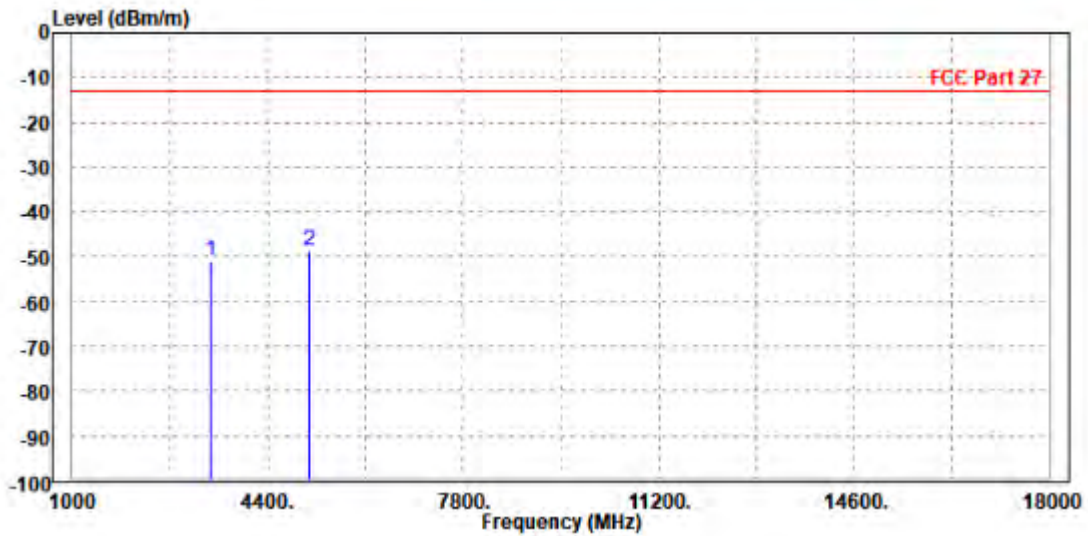
Note: For higher frequency, the emission is too low to be detected.

WCDMA Band IV(Ant1) (DOWN):

CH 1312

MODE	TX channel 1312	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3424.000	-51.08	-59.59	-13.00	-38.08	8.51	Peak	Horizontal
2 PP	5131.000	-48.61	-59.86	-13.00	-35.61	11.25	Peak	Horizontal

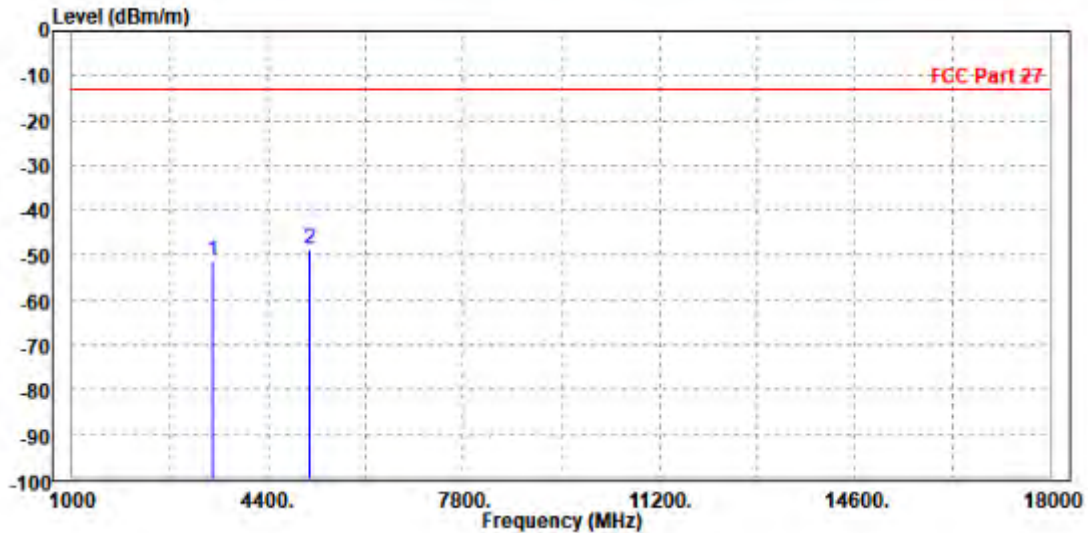




Test Report No.: W7L-P24050014RF07

MODE	TX channel 1312	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3431.000	-51.24	-59.91	-13.00	-38.24	8.67	Peak	Vertical
2 PP	5136.000	-48.60	-60.23	-13.00	-35.60	11.63	Peak	Vertical



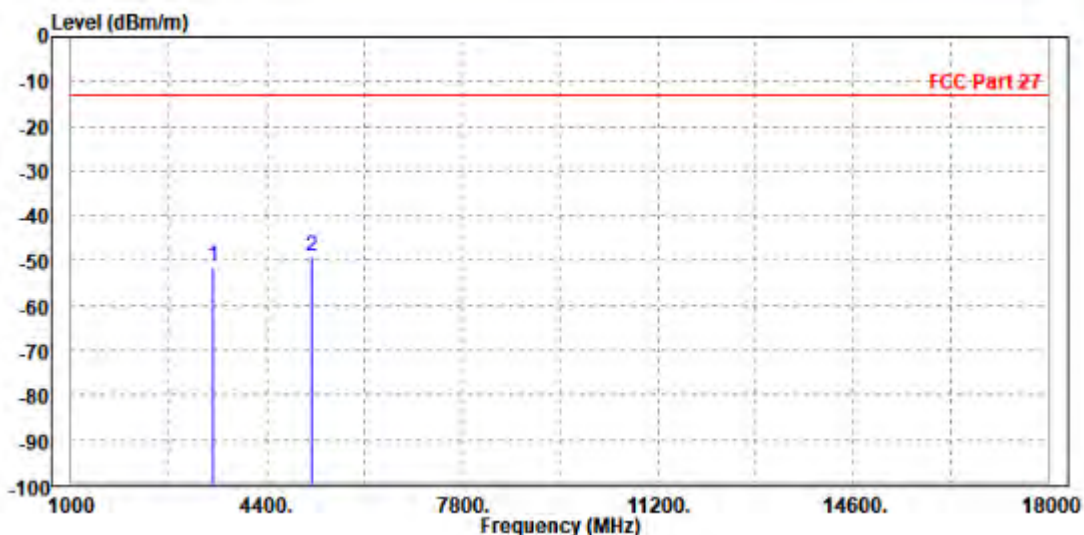


Test Report No.: W7L-P24050014RF07

CH 1413

MODE	TX channel 1413	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3465.000	-51.18	-59.72	-13.00	-38.18	8.54	Peak	Horizontal
2 PP	5196.000	-48.90	-60.25	-13.00	-35.90	11.35	Peak	Horizontal

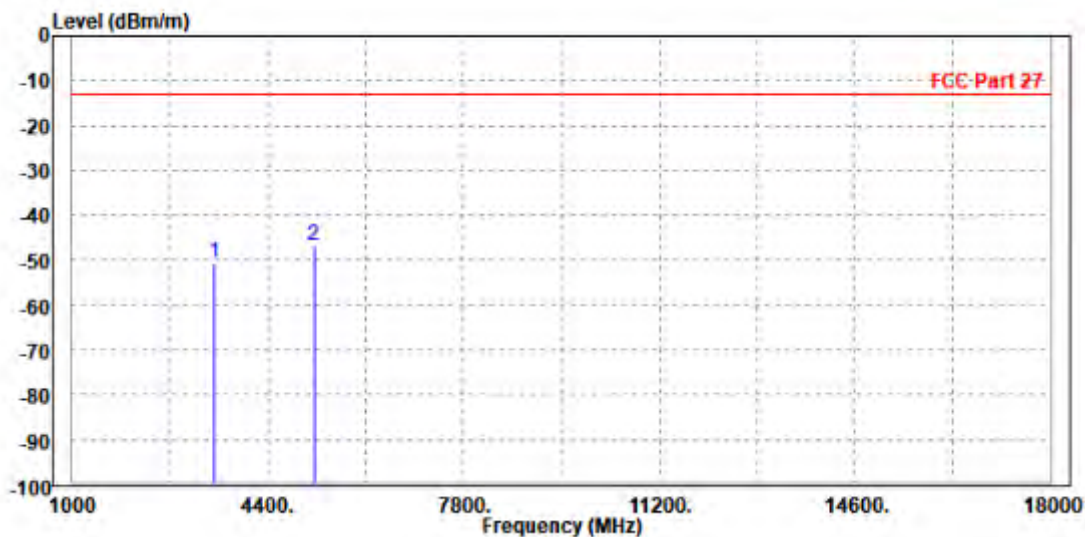




Test Report No.: W7L-P24050014RF07

MODE	TX channel 1413	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3464.000	-50.64	-59.29	-13.00	-37.64	8.65	Peak	Vertical
2 PP	5199.000	-46.69	-58.45	-13.00	-33.69	11.76	Peak	Vertical



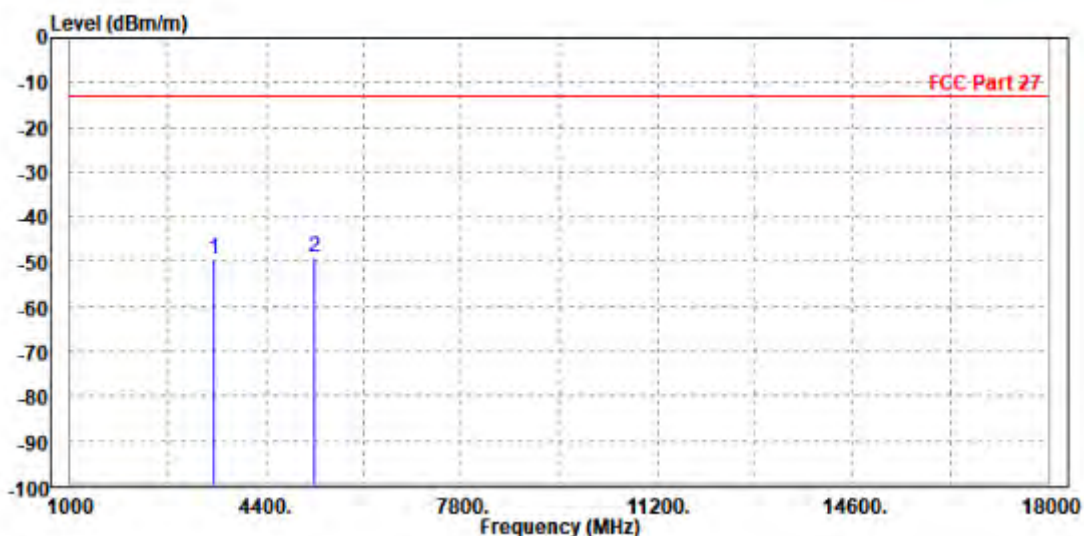


Test Report No.: W7L-P24050014RF07

CH 1513

MODE	TX channel 1513	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3499.000	-49.47	-58.03	-13.00	-36.47	8.56	Peak	Horizontal
2 PP	5256.000	-49.01	-60.45	-13.00	-36.01	11.44	Peak	Horizontal



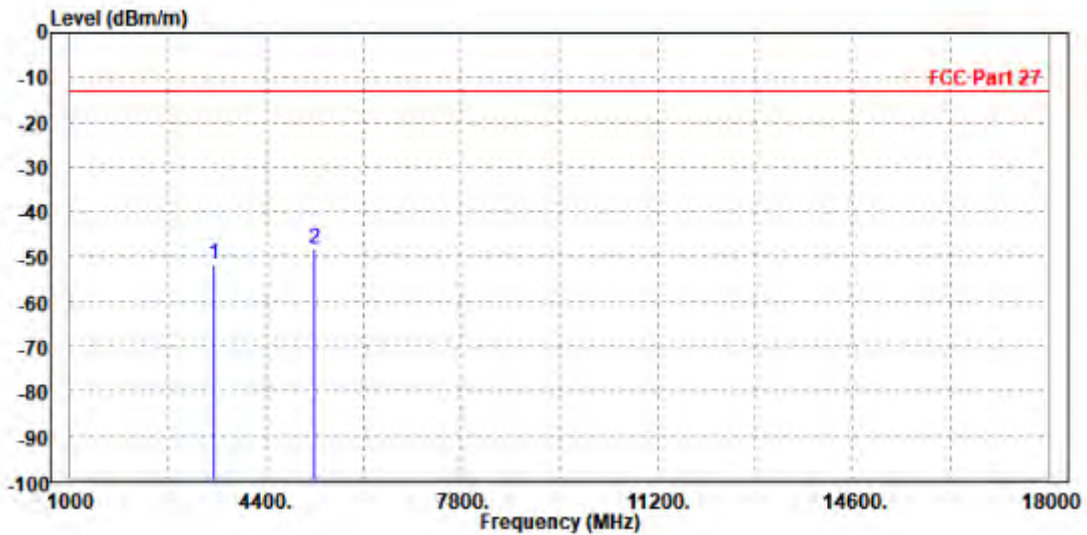


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Test Report No.: W7L-P24050014RF07

MODE	TX channel 1513	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3504.000	-51.68	-60.32	-13.00	-38.68	8.64	Peak	Vertical
2 PP	5250.000	-48.19	-60.04	-13.00	-35.19	11.85	Peak	Vertical



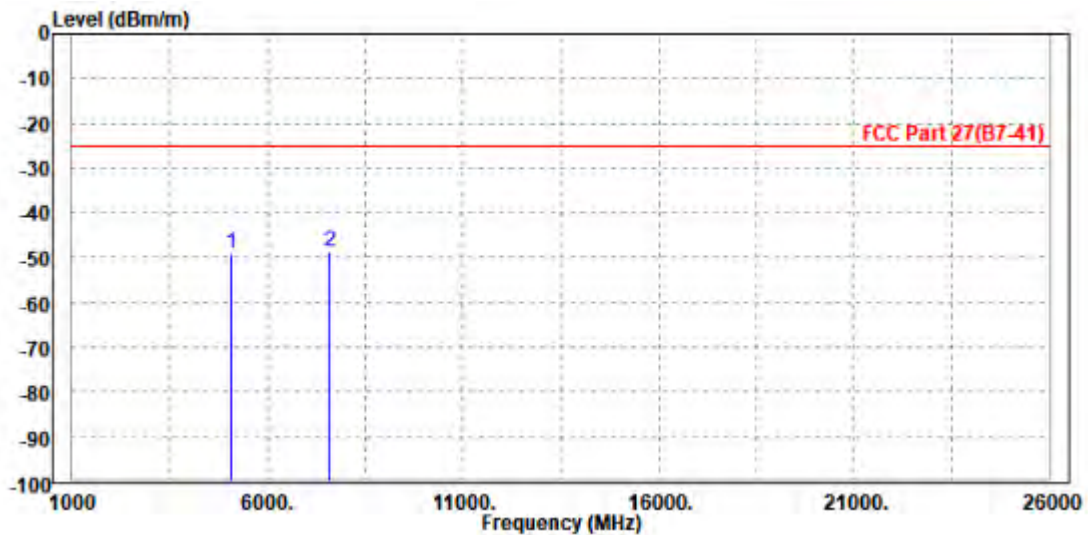


Test Report No.: W7L-P24050014RF07

LTE Band 7(Ant0) (UP):
CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5075.000	-49.06	-60.23	-25.00	-24.06	11.17	Peak	Horizontal
2 PP	7605.000	-48.63	-63.15	-25.00	-23.63	14.52	Peak	Horizontal

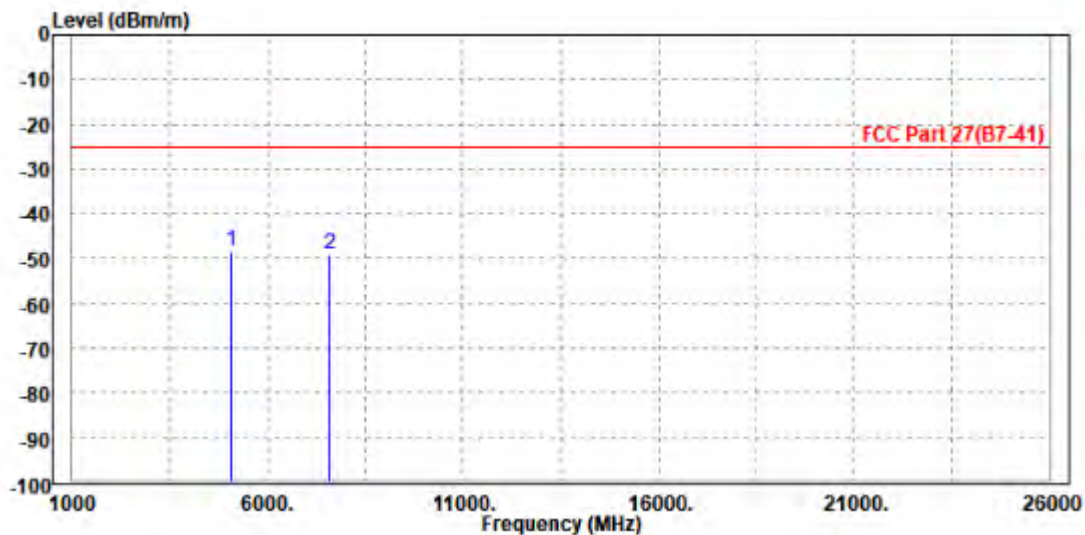




Test Report No.: W7L-P24050014RF07

MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5070.000	-48.37	-59.88	-25.00	-23.37	11.51	Peak	Vertical
2	7600.000	-49.19	-62.64	-25.00	-24.19	13.45	Peak	Vertical



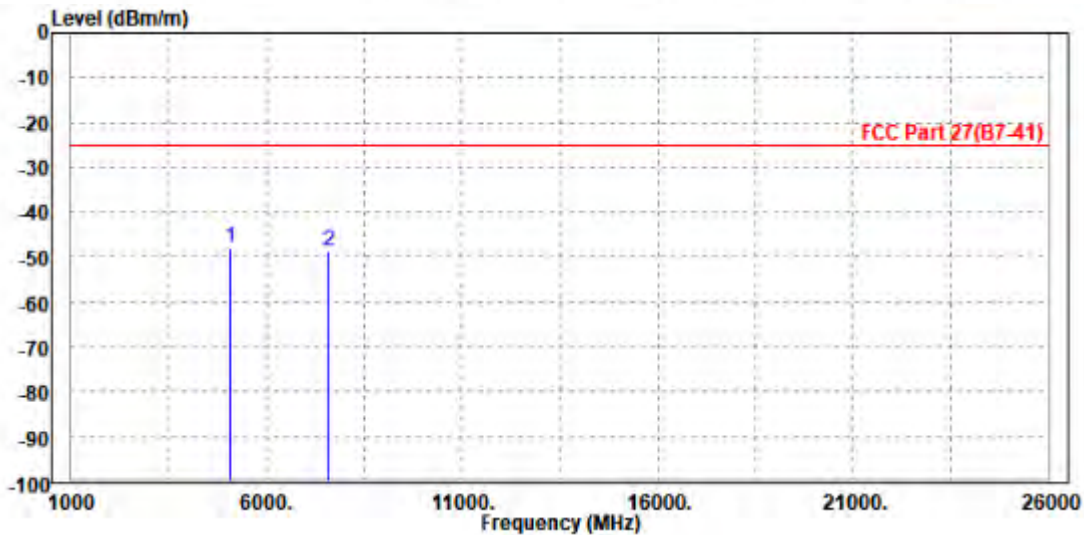


Test Report No.: W7L-P24050014RF07

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	5070.000	-48.02	-59.18	-25.00	-23.02	11.16	Peak	Horizontal
2	7600.000	-48.61	-63.12	-25.00	-23.61	14.51	Peak	Horizontal

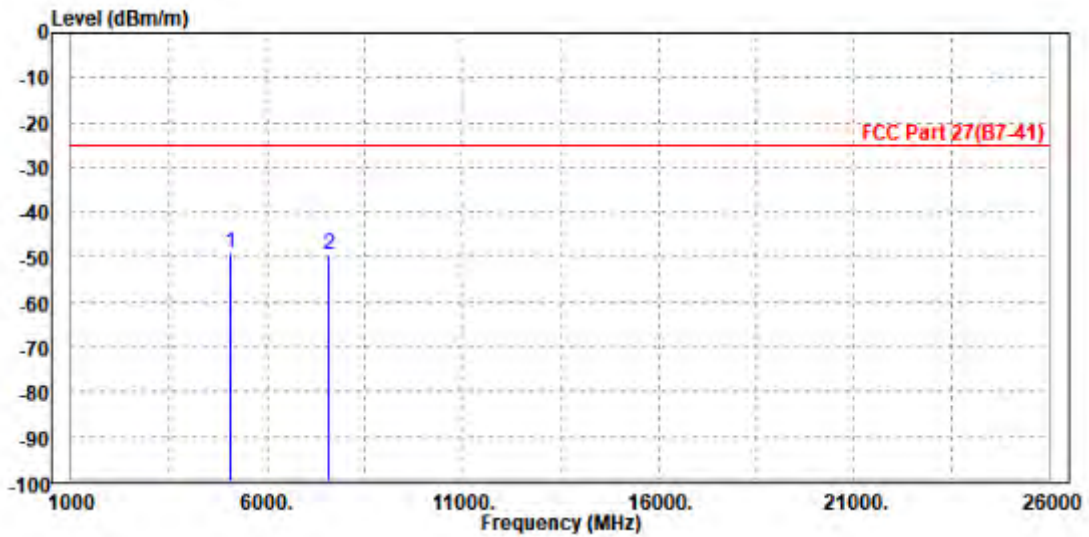




Test Report No.: W7L-P24050014RF07

MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5075.000	-49.05	-60.57	-25.00	-24.05	11.52	Peak	Vertical
2	7605.000	-49.40	-62.88	-25.00	-24.40	13.48	Peak	Vertical





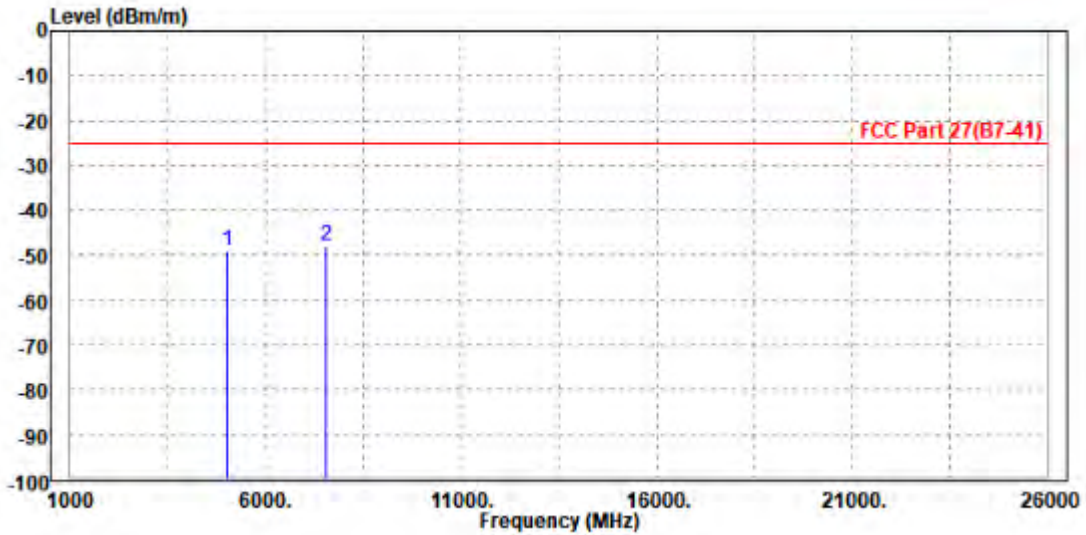
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Test Report No.: W7L-P24050014RF07

CHANNEL BANDWIDTH: 15MHz / QPSK
CH 20825

MODE	TX channel 20825	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5015.000	-48.90	-59.98	-25.00	-23.90	11.08	Peak	Horizontal
2 PP	7525.000	-47.91	-62.29	-25.00	-22.91	14.38	Peak	Horizontal

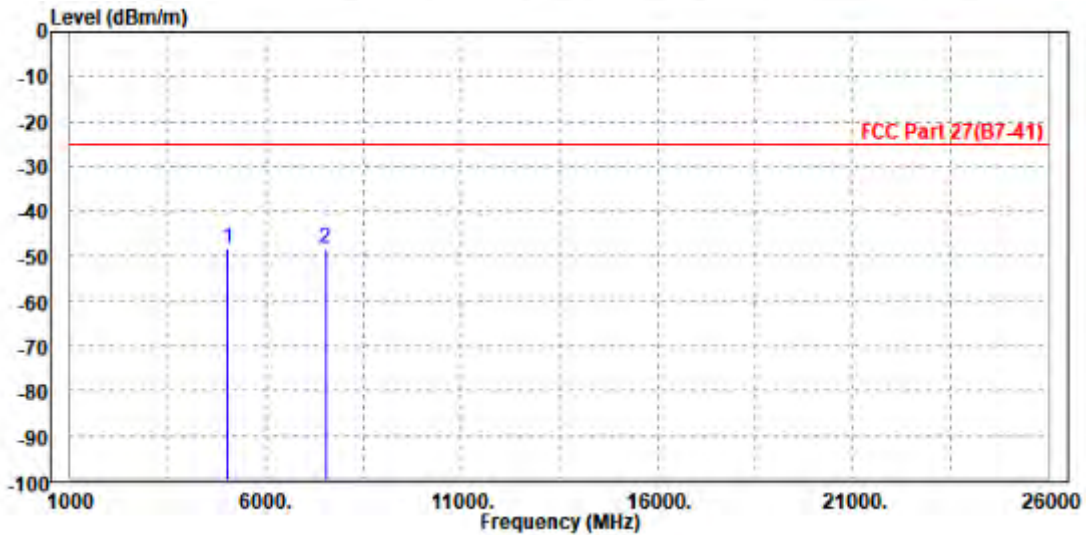




Test Report No.: W7L-P24050014RF07

MODE	TX channel 20825	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5025.000	-48.21	-59.63	-25.00	-23.21	11.42	Peak	Vertical
2	7522.500	-48.36	-61.48	-25.00	-23.36	13.12	Peak	Vertical





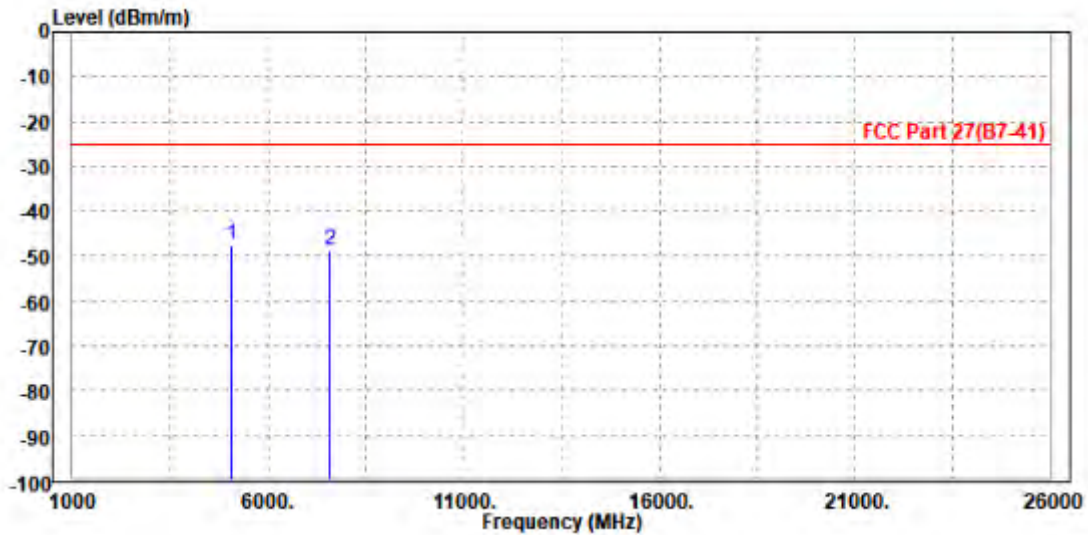
BUREAU
VERITAS

Test Report No.: W7L-P24050014RF07

CH21100

MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 5070.000	-47.70	-58.86	-25.00	-22.70	11.16	Peak	Horizontal
2 7600.000	-48.63	-63.14	-25.00	-23.63	14.51	Peak	Horizontal

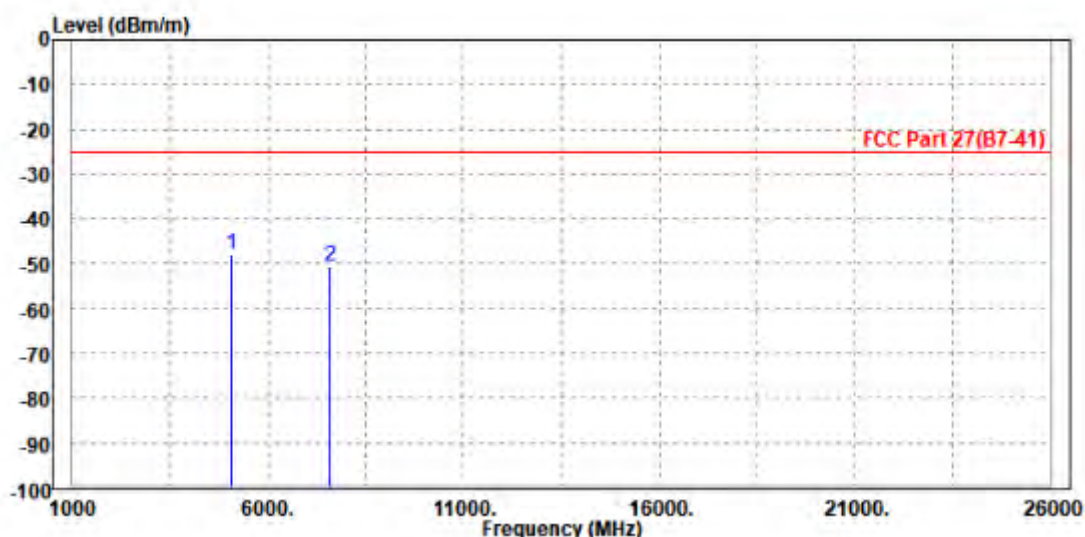




Test Report No.: W7L-P24050014RF07

MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5075.000	-47.92	-59.44	-25.00	-22.92	11.52	Peak	Vertical
2	7605.000	-50.49	-63.97	-25.00	-25.49	13.48	Peak	Vertical





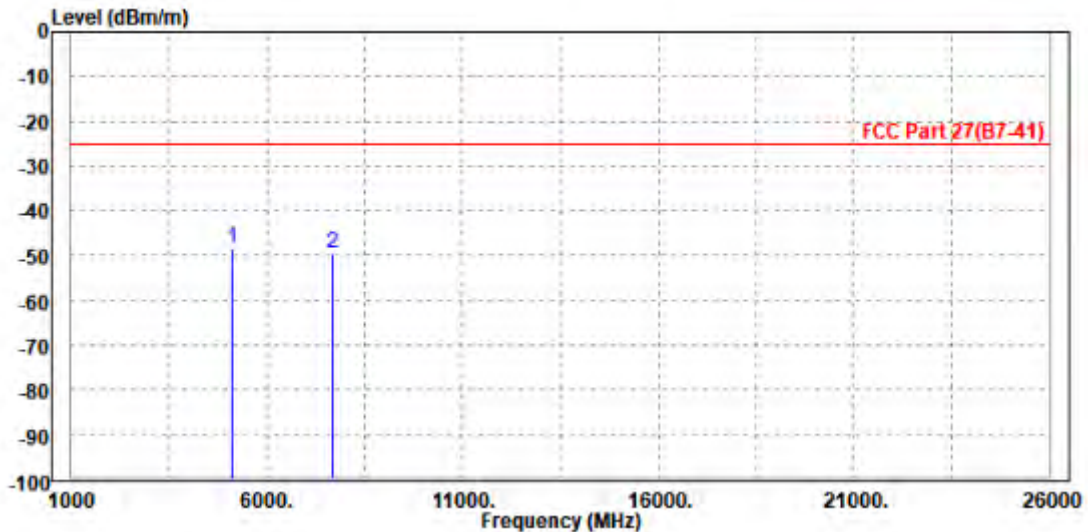
**BUREAU
VERITAS**

Test Report No.: W7L-P24050014RF07

CH 21375

MODE	TX channel 21375	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5125.000	-48.26	-59.51	-25.00	-23.26	11.25	Peak	Horizontal
2	7687.500	-49.29	-63.95	-25.00	-24.29	14.66	Peak	Horizontal





Test Report No.: W7L-P24050014RF07

MODE	TX channel 21375	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5125.000	-48.23	-59.84	-25.00	-23.23	11.61	Peak	Vertical
2	7700.000	-50.28	-64.17	-25.00	-25.28	13.89	Peak	Vertical

